

=> fil reg

FILE 'REGISTRY' ENTERED AT 14:21:32 ON 10 OCT 2007

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 9 OCT 2007 HIGHEST RN 949922-95-6

DICTIONARY FILE UPDATES: 9 OCT 2007 HIGHEST RN 949922-95-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when conducting SmartSELECT searches.

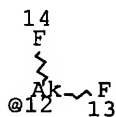
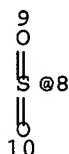
REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

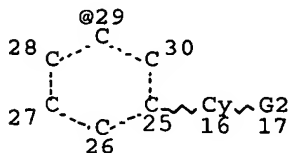
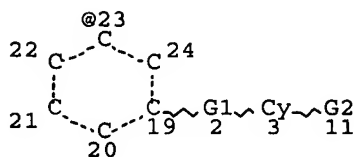
=> d que stat l12

L4 SCR 2043

L6 STR



G3 18



VAR G1=4/6/8

VAR G2=F/O/S/12

VAR G3=23/29

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

GGCAT IS UNS AT 3

GGCAT IS SAT AT 12

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 28

STEREO ATTRIBUTES: NONE

L8 STR



## NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

## GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 2

## STEREO ATTRIBUTES: NONE

L10 SCR 2026

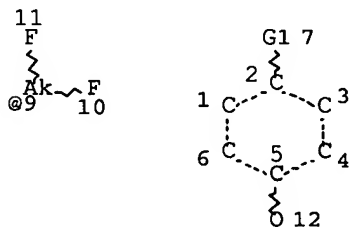
L12 82675 SEA FILE=REGISTRY SSS FUL (L6 NOT L8) AND L4 NOT L10

100.0% PROCESSED 579276 ITERATIONS ( 21 INCOMPLETE) 82675 ANSWERS

SEARCH TIME: 00.00.10

=&gt; d que stat l25

L23 STR



VAR G1=SO3H/9

## NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

GGCAT IS SAT AT 9

DEFAULT ECLEVEL IS LIMITED

## GRAPH ATTRIBUTES:

RSPEC 5

NUMBER OF NODES IS 11

## STEREO ATTRIBUTES: NONE

L25 49316 SEA FILE=REGISTRY SSS FUL L23

100.0% PROCESSED 747516 ITERATIONS

49316 ANSWERS

SEARCH TIME: 00.00.06

=&gt; d his

(FILE 'HOME' ENTERED AT 12:12:40 ON 10 OCT 2007)

FILE 'HCAPLUS' ENTERED AT 12:12:56 ON 10 OCT 2007

E US20060106190/PN

L1

1 S E3

SEL RN

FILE 'REGISTRY' ENTERED AT 12:19:03 ON 10 OCT 2007  
L2 4 S E1-4

FILE 'LREGISTRY' ENTERED AT 13:17:08 ON 10 OCT 2007  
L3 STR

FILE 'REGISTRY' ENTERED AT 13:28:26 ON 10 OCT 2007  
L4 SCR 2043  
L5 50 S L3 AND L4  
L6 STR L3  
L7 50 S L6 AND L4  
L8 STR  
L9 50 S (L6 NOT L8) AND L4  
L10 SCR 2026  
L11 50 S (L6 NOT L8) AND L4 NOT L10  
L12 82675 S (L6 NOT L8) AND L4 NOT L10 FUL  
L13 1 S L2 AND L12  
SAV L12 TEMP HEI642/A  
L14 1 S 652991-23-6/RN  
L15 1 S 825-90-1/RN  
L16 2 S L14 OR L15

FILE 'HCAPLUS' ENTERED AT 13:45:09 ON 10 OCT 2007  
L17 4 S L13  
L18 355 S L16  
L19 70126 S L12  
L20 7 S (L17 OR L19) AND L18

FILE 'LREGISTRY' ENTERED AT 13:55:04 ON 10 OCT 2007  
L21 STR

FILE 'REGISTRY' ENTERED AT 14:01:30 ON 10 OCT 2007  
L22 50 S L21  
L23 STR L21  
L24 50 S L23  
L25 49316 S L23 FUL  
L26 2 S L2 AND L25  
SAV L25 TEMP HEI642A2/A

FILE 'HCAPLUS' ENTERED AT 14:04:42 ON 10 OCT 2007  
L27 33268 S L25  
L28 2874 S (L17 OR L19) AND L27

FILE 'LREGISTRY' ENTERED AT 14:05:51 ON 10 OCT 2007  
L29 STR L21

FILE 'REGISTRY' ENTERED AT 14:08:34 ON 10 OCT 2007  
L30 50 S L29 SSS SAM SUB=L25

FILE 'LREGISTRY' ENTERED AT 14:09:45 ON 10 OCT 2007  
L31 STR L29

FILE 'REGISTRY' ENTERED AT 14:11:41 ON 10 OCT 2007  
L32 3 S L31 SSS SAM SUB=L25  
L33 67 S L31 SSS FUL SUB=L25  
SAV L33 HEI642A2S1/A

FILE 'HCAPLUS' ENTERED AT 14:12:26 ON 10 OCT 2007

L34 21 S L33  
L35 18 S L19 AND L34  
L36 25 S L35 OR L20

=> fil hcap

FILE 'HCAPLUS' ENTERED AT 14:21:44 ON 10 OCT 2007

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FILE LAST UPDATED: 9 Oct 2007 (20071009/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d l35 ibib abs hitstr hitind 1-18

L35 ANSWER 1 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2007:326487 HCAPLUS Full-text

DOCUMENT NUMBER: 146:362050

TITLE: Manufacture of crosslinked cation exchange resin membranes containing sulfonic acid groups, and fuel cell electrolyte membranes made of them

INVENTOR(S): Okamoto, Kenichi; Sudo, Yoshiki; Fang, Chien Hua; Guo, Xiao Xia

PATENT ASSIGNEE(S): Yamaguchi University, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 16pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007070563	A	20070322	JP 2005-261867	20050909
PRIORITY APPLN. INFO.:				20050909

AB The cation exchange resin membranes are manufactured by dehydration bonding of sulfo-containing macromols. with substances containing hydrogen and high-d. carbon